## **AMENDMENT TO CLAIMS**

- 1. (Currently amended) A method of configuring a data storage eyetem<u>disk array</u>, the method comprising using a high-level language description to configure the <u>disk arraydata storage system</u>.
  - 2. (Original) The method of claim 1, wherein the high-level language specifies configuration goals.
  - 3. (Original) The method of claim 1, wherein the high-level language description includes a declarative language.
  - 4. (Original) The method of claim 1, wherein the high-level language includes generic configuration commands.
  - 5. (Original) The method of claim 1, wherein the high-level language description includes device/host-independent commands.
  - 6. (Currently amended) The method of claim 1, further comprising the step of translating the high-level language description into device/host-specific commands.
  - 7. (Original) The method of claim 6, wherein the high-level language description is translated directly into the device/host-specific commands.
  - 8. (Original) The method of claim 6, wherein the high-level language description is translated into device/host-independent commands and the device/host-independent commands are translated into device/host-specific commands.



9. (Original) The method of claim 8, wherein first software modules are accessed to translate the high-level language description into the independent commands; and wherein second software modules are accessed to translate the independent commands into the specific commands.

- 10. (Original) The method of claim 6, further comprising performing rule checking on the high-level language description and the commands.
- 11. (Original) The method of claim 6, wherein specific commands are generated only for device/host parameters that should be changed.
- 12. (Original) The method of claim 6, further comprising translating the high-level description into device-specific queries, and generating commands from responses to the queries.
- 13. A method for configuring a data storage device, the method comprising:

generating accessing a high-level language description that specifies how configuration goals for the data storage device stores data; and translating the high-level language description into device/bost-

translating the high-level language description into device/host-independent commands.

- 14. (Original) The method of claim 13, further comprising sending the device/host-independent commands to a host that can communicate with the data storage device.
- 15. (Original) The method of claim 13, further comprising translating the device/host-independent commands into device/host-specific commands.



- 16. (Original) The method of claim 15 further comprising executing the device/host-specific commands to configure the data storage device.
- 17. (Original) The method of claim 15, wherein commands are generated only for those device/host parameters that will be changed.
- 18. (Original) The method of claim 13, further comprising performing rule checking on the high-level language description and the commands.
- 19. (Currently amended) The method of claim 13, wherein the data storage device is a disk array, whereby the high-level language description specifies how the disk array stores data.
- 20. Apparatus for configuring a data storage system, the apparatus comprising a processor for processing a high-level language description of the data storage system into configuration commands that can be used to set data storage parameters in the data storage system.
  - 21. (Original) The apparatus of claim 20, wherein the processor also translates the high-level language description into commands.
  - 22. (Original) The apparatus of claim 21, wherein the processor translates the high-level language description directly into device/host-specific commands.
  - 23. (Original) The apparatus of claim 21, further comprising memory for storing first and second modules, each first module translating high-level language into independent commands, each second module translating independent commands into specific commands.



- 24. (Original) The apparatus of claim 21, wherein the processor also performs rule checking on the high-level language description and the commands.
- 25. (Currently amended) The apparatus of claim 21, wherein the processor generates commands are generated only for device/host parameters that should be changed.
- 26. (Original) The apparatus of claim 21, wherein the processor also queries devices of the data storage system, and generates commands from responses to the queries.
- 27. (Currently amended) An article for instructing a processor to configure a data storage system, the article comprising:

computer-memory; and

data encoded in the computer memory, the data instructing the processor to translate process a high-level language description of the data storage system; and translate the high-level description into specific commands that can be used to set configuration parameters of the data storage device.

- 28 (New). The method of claim 1, wherein the high-level language description specifies how the disk array stores data.
- 29. (New) The method of claim 6, further comprising converting the specific commands into signals, and sending the signals to the disk array, whereby the signals cause the disk array to set parameters specified by the signal.
- 30. (New) The method of claim 29, further comprising performing a host configuration on the disk array after the disk array sets its parameters.



- 31. (New) The method of claim 1, wherein the high-level language description includes descriptions of RAID level, stripe size, and cache page size.
- 32. (New) The method of claim 1, further comprising generating the high-level language description.
- 33. (New) The method of claim 13, further comprising converting the specific commands into signals, and sending the signals to the data storage device, whereby the signals cause the data storage device to set parameters specified by the signals.
- 34. (New) The method of claim 33, further comprising performing a host configuration on the disk array after the disk array sets its parameters.
- 35. (New) The method of claim 13, wherein the high-level description language includes descriptions for RAID level, stripe size, and cache page size.
- 36. (New) The method of claim 13, further comprising generating the high-level language description.
- 37. (New) The apparatus of claim 20, further comprising means for converting the specific commands into signals, and sending the signals to the data storage device, whereby the signals cause the data storage device to set parameters specified by the signals.
- 38 (New) The apparatus of claim 38, further comprising means for performing a host configuration on the disk array after the disk array sets its parameters.
- 39. (New) The apparatus of claim 20, wherein the high-level description language includes descriptions for RAID level, stripe size, and cache page size.





- 40. (New) The apparatus of claim 20, further comprising means for generating the high-level language description.
- 41. (New) The article of claim 27, wherein the data further instructs the processor to convert the specific commands into signals, and send the signals to the data storage device, whereby the signals cause the data storage device to set parameters specified by the signals.
- 42. (New) The article of claim 27, wherein the high-level description language includes descriptions for RAID level, stripe size, and cache page size.
- 43. (New) The article of claim 27, wherein the data further instructs the processor to generate the high-level language description.
  - 44. (New) The article of claim 27, wherein the data further instructs the processor to translate the high-level language description into device/host-specific commands.
  - 45. (New) The article of claim 44, wherein the data further instructs the processor to perform rule checking on the high-level language description and the commands.
  - 46. (New) The article of claim 44, wherein the data instructs the processor to generate commands only for device/host parameters that should be changed.
  - 47. (New) The article of claim 27, wherein the data further includes a first module for translating high-level language into independent commands, and a second module for translating independent commands into specific commands.



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48. (New) The article of claim 27, wherein the data further instructs the processor to query devices of the data storage system, and generates commands from responses to the queries.